Annual Report of the Director for Fiscal Year 2005–2006

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I consider this year, and the upcoming fiscal year, as being a transition period for the AAVSO. Headquarters is rapidly becoming more efficient, necessary in this day and age of campaigns, time series photometry, and surveys. Equipment for all types of observers continues to improve; technology such as broadband Internet access is available even at the remote Observatory. We are looking ahead, trying to see what lies on our horizon, and how best to meet the challenge. Stick with us and enjoy the ride! Below are a few highlights of the past year:

- Released beta version of the automated variable star chart plotter (VSP)
- Released the variable star index (VSX) program
- Released the "Blue&Gold" web section
- Added A. W. Roberts' 70,000 visual observations to the AAVSO International Database
- Initiated many observing campaigns
- Produced two issues of *JAAVSO*, including the huge Janet Mattei memorial issue
- Moved the AAVSO International Database over to MYSQL
- Created a Spanish translation of the *AAVSO Manual for Visual Observing of Variable Stars*
- Published several issues of *Eyepiece Views*
- Merged photoelectric photometry data into the AAVSO International Database
- RS Oph went into outburst!

While the Director gives this report, the vast majority of the progress in the organization would not be possible without the dedicated staff and volunteers. Whenever you run across one of these people, be sure to thank them for their tireless effort on behalf of the AAVSO.

1. Data management and data processing

1.1. Digitization and processing of current data

Increasingly more observations are submitted electronically through the website and are automatically pipelined into online Quick Look/Light Curve Generator files every ten minutes. A total of 932,119 observations from 751 observers were

reported during this period, with 74% coming through WebObs, 21% through email (and processed by programs written by Aaron Price), and 4% through the traditional method of paper submission and AAVSO Headquarters digitization. The International Database now has around 13.5 million observations.

The Boyden group of astronomers have finished the digitizing of the 70,000 southern visual observations by A. W. Roberts at the turn of the 20th century. Those observations have been merged into the AAVSO International Database. The group is now entering the notes that went along with many of the observations. This work is being funded through an AAS Small Research Grant.

Several other large observational databases are being digitized. The eclipsing binary and RR Lyr observations from 1966 through 1975 that only existed on paper were entered by a Margaret Mayall Assistant, Yelena Synkova, and will be formatted and added to the International Database shortly. Additional databases entered by Brian Skiff and Stan Walker are being added to the International Database. Finally, the AAVSO is undertaking the archiving and digitizing of the IAU unpublished lists of variable star observations.

1.2. Computer systems and networking

The biggest technology change in the last year has been the migration of the AAVSO International Database from formatted, ASCII text files into the MYSQL relational database system. This transition occurred in the summer of 2006 and included the rewriting of many of our web-based software applications. The light curve generator, Quick Look file, WebObs, the data download tool, and the MyNewsFlash system were all rewritten from scratch to take advantage of the new database system. All of the tools run quicker now and include new features not available with the previous database system. Additionally, support for the National Virtual Observatory (NVO) standardized VOTable XML format has been added to the Quick Look page and data download tool. This means AAVSO data can be easily loaded into any VO tool that supports the VOTable format.

The new database means that many internal tools used by the staff need to be replaced. Aaron, Sara, Kate, and Mike have already begun the process of writing some of these new tools, which will significantly increase staff efficiency when completed. The new software is being written in JAVA or PERL in such a way as to run on OS X, Windows, or Linux platforms.

Supporting the new software is a new server purchased and installed in the winter of 2006. With faster CPUs, greater amount of RAM, and larger RAID disks, the new server makes online processes (such as generating light curves) much quicker than before. Aging staff Windows workstations have continued to be slowly replaced by Apple OS X-based workstations, usually MacMinis. Headquarters now operates four Linux servers, eight OS X workstations, four Windows 9x workstations, one OS X laptop, and one Windows XP laptop.

Several other software programs were written for staff use at headquarters, such as Java programs for validating data and fitting light curves to long period

variables. While not visible to the membership, these programs greatly improve the efficiency of headquarters and help us serve you better. The photoelectric photometry processing program written in BASIC by Howard Landis has been ported to PERL by Matt Templeton and improved.

2. Internet presence and the AAVSO website

AAVSO website usage is high despite a small dip in recent activity and continues along an increasing trend. Inspecting the activity of page downloads, unique hosts, and data transferred over the last five years reveals that the site is five times more active now than it was in 2001. These three factors are independent of one another, showing strong evidence that the site is indeed becoming more popular every year. The top four most popular pages remain the same: Quick Look, Chart Search, Light Curve Generator, and WebObs. An inspection of clicks through the home page reveals that 38% of the visitors who click on our home page are clicking on one of the "Pick a star" features in the upper left corner. Within the "pick a star" features, the Quick Look is the most popular by far. The "most popular pages" section of the home page receives about 30% of the clicks, and the rest of the home page clicks are in the main section links and news and announcements area, with other links having minimal activity.

Many significant features have been added to the website in this past year. Most programs have been rewritten to accommodate the new mysql database. The Blue&Gold section was added. This is a portal for members and observers to access the new WebObs (has new and improved features), update their AAVSO information, or change their MyNewsFlash settings. More features are coming soon to this section. VSX, the Variable Star indeX, by Chris Watson, is a very popular new addition to the site. A new section called "Education and Public Outreach" was added with some new pages. The *eJAAVSO* continues to see many new additions, with twenty-one articles and two volumes being posted in the last year. Variable Star of the Season articles that have been posted include those for TU Cas, o Cet, AH Leo, and V4641 Sgr.

The "Published Times of Minimum Database" was added to the site. This section gives people the ability to search for all times of minima for certain eclipsing binary stars published in the AAVSO Observed Times of Minima of Eclipsing Binaries series.

The *Special Notice* electronic publication was started, with all notices being published to the web and distributed by email. Many other publications, home page feature articles, and other pages have been added to the site.

Several fund-raising links remain on the web page. Paul Norris, a long-time member, donated panes of Hubble/HST stamps. An agreement was reached with Amazon, where any sales made by clicking on our front-page link result in a rebate to the AAVSO. We have announced a "Flying Star" program to pay for staff domestic and international travel. Of course, contributions to the Janet Mattei Research Fund are always welcome.

3. Requests for AAVSO data

We have responded to about 3,000 requests for AAVSO data and information from astronomers, observers, educators, and students. We responded to about 2,800 requests in 2005, 1,829 requests in 2004, and 536 requests in 2003. Some of this increase is due to the increasing availability of data online for automatic download, but some is also due to the fact that online requests must be made one star at a time, while an email sent to headquarters (and that would be counted as one request) may contain a request for data on several stars. Listed below are some of our many campaigns and requests.

Dr. Charles Townes, of the University of California at Berkeley and a longtime AAVSO colleague, requested AAVSO data and maxima/minima information this year on seven stars to correlate with his far-infrared observations. We were able to supply substantial data on o Cet, VY CMa, V Hya, VX Sgr (twelve years' worth), and α Her (six years' worth), and minimal data on RW LMi and NML Cyg.

Dr. John Cannizzo, NASA Goddard Space Flight Center, specializes in cataclysmic variables, and has collaborated with the AAVSO on long-term studies of SS Cyg since the 1980s. Every several years he studies the AAVSO data that have accumulated since his previous study to look both for new behaviors in the recent data and for long-term trends in the ever-lengthening dataset that goes back to SS Cyg's discovery in 1896. This year Dr. Cannizzo requested the SS Cyg data since 1999, and we were pleased to send him the 194,375 observations that you, our observers, had submitted to the AAVSO from 1999 through mid-August 2006.

AAVSO data are often used in publications to illustrate types of variable stars or demonstrate variable star behavior. Two of these requests were from Dr. Jay Pasachoff of Williams College and Dr. Gianluca Rossi of Rome, Italy. Dr. Pasachoff requested AAVSO light curves of o Cet, R Boo, R CrB, and SS Cyg to use as illustrations in the fourth edition of his *Peterson Field Guide to the Stars and Planets* that he is preparing. Also as in the previous editions, the AAVSO is cited as a resource for variable stars and variable star observing, which we very much appreciate. Jay was attending the IAU General Assembly in Prague while we were working on his request, so our communications were three-sided—Jay in Prague, his assistants in Williamstown, MA, and us in Cambridge. Dr. Rossi, who is writing a series of articles about variable stars for publication in an Italian astronomy magazine, requested the AAVSO long-term light curve of R Leo. He will be using other AAVSO light curves and charts in future articles.

AAVSO member Dr. Robert Garrison, University of Toronto, worked with Miras in the 1960s and 1970s, obtaining hundreds of spectra; he continues to obtain and study spectra of Mira itself, despite having retired five years ago. He requested the AAVSO long-term light curve of o Cet for his talk to the Department of Astronomy, and we were happy to provide him with the light curve of ten-day means for 1902–2006—104 years of data!

Dr. Glenn Wahlgren, Lund University, Sweden, requested the AAVSO light

curve of the symbiotic variable AG Dra to use in his proposal requesting target-of-opportunity observing time on the Spitzer Telescope. Dr. Wahlgren wanted to use the light curve not only to show the recent behavior of the star but also to demonstrate how the satellite observations could be triggered as a result of the AAVSO observers monitoring AG Dra and their real-time reporting AG Dra to be brighter than a certain magnitude as it goes into outburst.

The February outburst of the recurrent nova RS Oph, the first since January 1985, led to many requests for data and/or light curves, including those from Dr. Daniel Green of the Central Bureau for Astronomical Telegrams for two *IAU Circulars* on RS Oph, Dr. Kim Page of the University of Leicester, and Hubert Hautecler of the Belgian variable star observing organization for his presentation at the VVS WVS annual meeting. Dr. Mark Wagner, University of Arizona, Dr. Julian Osborne, University of Leicester, and several colleagues requested AAVSO assistance in a multiwavelength, multi-satellite campaign on RS Oph taking place in September and October. AAVSO observers provided excellent optical coverage of RS Oph before, during, and after observations by Chandra, Swift, and Spitzer. Over 120 observers contributed to the AAVSO data that will be provided to the astronomers for analysis of the satellite data.

Dr. Darren Baskill, University of Leicester, requested our assistance in providing optical coverage of the cataclysmic variable V426 Oph to coincide with his XMM-Newton observations. Visual and CCD observers were asked to observe V426 Oph nightly for four months, and during this interval CCD observers were also asked for concentrated time-series observations for nine days. AAVSO observers provided excellent coverage during this long campaign.

Other requests for AAVSO data for use in correlating satellite data include those of Dr. Michael Bode, John Moores University, Astrophysics Research Institute (Birkenhead, England), and colleagues, who requested data on V2361 Cyg (N Cyg 2005) for correlating their Spitzer and Liverpool Telescope datasets, and Dr. Douglas Gies, Georgia State University, and his student, who requested long-term visual and photoelectric photometric data on X Per for correlation with ROSAT data.

The AAVSO photoelectric photometry observers have been monitoring IM Peg since 2001 in support of the NASA Gravity Probe-B satellite mission. The mission is now in its final phase—data analysis—and we have provided Dr. Michael Ratner, Harvard-Smithsonian Center for Astrophysics, with the over 600 PEP observations made by our observers.

Longtime AAVSO member and colleague Dr. George Wallerstein, University of Washington, requested our assistance in monitoring the Cepheid variable W Vir in support of his observations at Apache Point Observatory, Sunspot, New Mexico. His observations had to be rescheduled due to bad weather, and AAVSO visual, PEP, and CCD observers extended their monitoring to accommodate the revised schedule, obtaining good data. The AAVSO photometric data were of excellent quality, and AAVSO Staff Astronomer Dr. Matthew Templeton will be presenting a poster at the January 2007 AAS meeting in Seattle with the results of the photometric campaign.

AAVSO Past President Dr. John Percy, University of Toronto, and his student, Rohan Pala, requested data on RW Aur and BP Tau as the first stars in a large data analysis project they are undertaking. We supplied sixty-nine years of data on RW Aur (10,124 observations) and nineteen years of data on BP Tau (735 observations).

Jae-Hyun Yoo, a high school student from Oregon, requested data on twenty Miras and eleven Cepheids for his science project. He downloaded the Mira data from the AAVSO website, and we provided him with representative light curves of the Cepheids.

AAVSO Council member Dr. Pamela Gay, Harvard University, requested AAVSO observers' assistance with a campaign on the RR Lyr variable AH Leo to investigate the Blazhko cycle and other periodicities in the star. An AAVSO Variable Star of the Season article by Dr. Gay was presented on the AAVSO website, charts were created, and AAVSO CCD observers were requested to follow AH Leo closely throughout the 2006 observing season.

Dr. Steve Howell (NOAO) was given a month of observing time on the Case Western Schmidt Telescope (CWST) at KPNO during September. He asked our cooperation in following the brighter stars in his $0.75 \times 1.50°$ field of view centered on the open cluster NGC6811. The CWST observations saturated at $V = 14$, and in addition, were only possible for a few hours per night. Observations from AAVSO observers spaced in longitude will be used to remove aliasing in new variable stars, and the bright observations have already resulted in the discovery of several new variables. The AAVSO observations will be highlighted in an AAS presentation in January, 2007.

4. Summary of observations

4.1 Annual observations

This year we received 932,119 visual, photoelectric, and CCD observations from 751 observers worldwide (Figure 1). These totals include 264,507 observations from 265 observers in 42 states and territories of the United States, and 667,612 observations from 486 observers in 44 countries. We continued to receive increasing numbers of observations from observers in the southern hemisphere and from observers with CCDs.

The total number of observations since 1911 in the AAVSO International Database is 13,616,445.

We passed two milestones this year: the 13 millionth and 13.5 millionth observations contributed to the AAVSO International Database! Observation 13 million was contributed by Tom Krajci, Dulles, VA, with his observation of 1020-15 ASAS 102522-1542.4 on JD 2453768.97989 (2006 February 2.47989 UT) at magnitude 13.524 CCD. Observation 13.5 million was contributed by Gerry Samolyk, Greenfield, WI. Of his 19,050 eclipsing binary observations, the 14,856th observation is the 13.5 millionth.

The single largest source of data contributed this year is the All-Sky Automated Survey 2 (ASAS2) in Chile, with 64,972 CCD observations. However, since these

data were reduced and contributed by several observers, we do not consider ASAS2 our "top observer." Our top three (human) observers for this fiscal year were Vance Petriew (Canada) with 53,034 (99.97% CCD), Christopher Middleton (South Africa) with 44,360 observations (all CCD), and Robert A. James (WI, USA) with 42,369 (all CCD) observations. Table 1 lists the number of observers and the total observational contribution from each country during this fiscal year. Table 2 gives the same information for each state or territory in the United States. Table 3 is an alphabetical list of observers, giving each person's AAVSO observer initials, location, and annual totals of observations. Table 4 lists the numbers of observers, each of whom made 1 to 999 observations; 1,000 to 9,999 observations (in increments of 1,000); and 10,000 or more observations this year. Table 4 also lists for each category the total number of observations and the percentage of all observations the category represents. Figures 3, 4, and 5 show schematic representations of the information in Table 4.

We received 6,051 observations from 19 photoelectric observers. Photoelectric data are sent directly to AAVSO Headquarters, where they are reduced and added directly to the AAVSO International Database. We received 575,420 CCD observations from 189 observers. These include BVRI and unfiltered data on CCD program stars and other stars of interest. With the AAVSO International Database conversion from ASCII to MYSQL, we have changed the way we track Eclipsing Binary and RR Lyr star observations, so we no longer maintain a separate tally of the numbers of observations of these types of stars. Of the many who contributed data on these stars, however, six observers from the Milwaukee Astronomical Society contributed over 27,000 observations. We received 474 supernova search observations directly from three observers. 2,977 nova search observations were reported by five observers to committee chair Rev. Kennety Beckmann, who compiles and digitizes these observations and provides valuable guidance to the searchers.

My most sincere thanks go to all our observers for their tireless efforts, dedication, and vital astronomical contributions to the AAVSO International Database. My sincere thanks also go to our data processing and archiving staff—Elizabeth Waagen, Aaron Price, Michael Saladyga, Gamze Menali, and Gloria Ortiz-Cruz—who very carefully digitize, process, and archive our hundreds of thousands of observations received each year.

4.2 International cooperation

We acknowledge with appreciation the observations sent to the AAVSO by members of the following variable star associations, either individually or as a group, for inclusion in the AAVSO International Database for dissemination to the astronomical community worldwide:

a. Agrupacion Astronomica de Sabadell (Spain)
b. Asociacion de Variabilistas de Espagne (Spain)

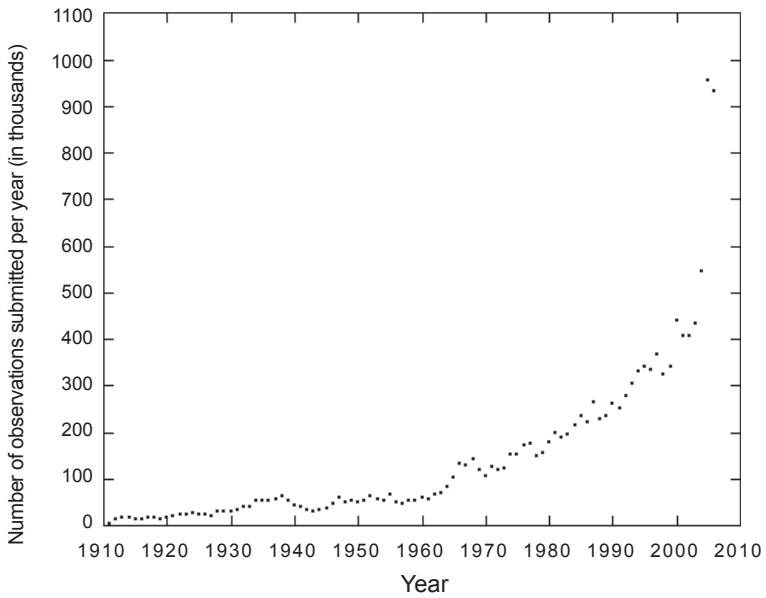


Figure 1. Number of observations submitted each year to the AAVSO International Database since its founding in 1911.

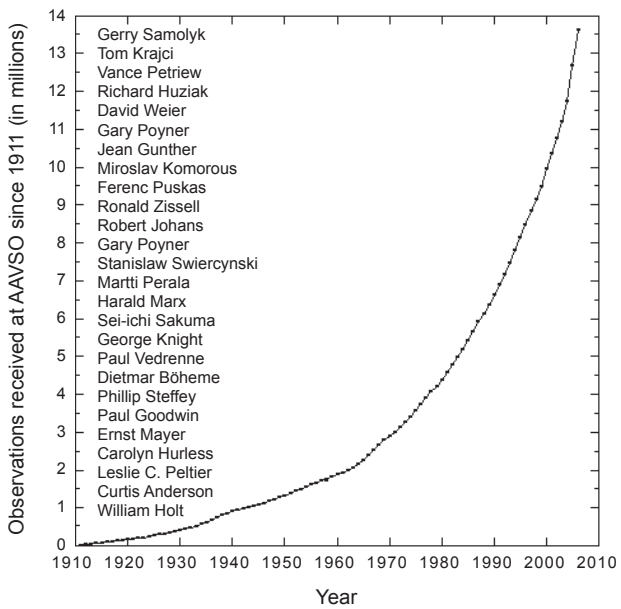
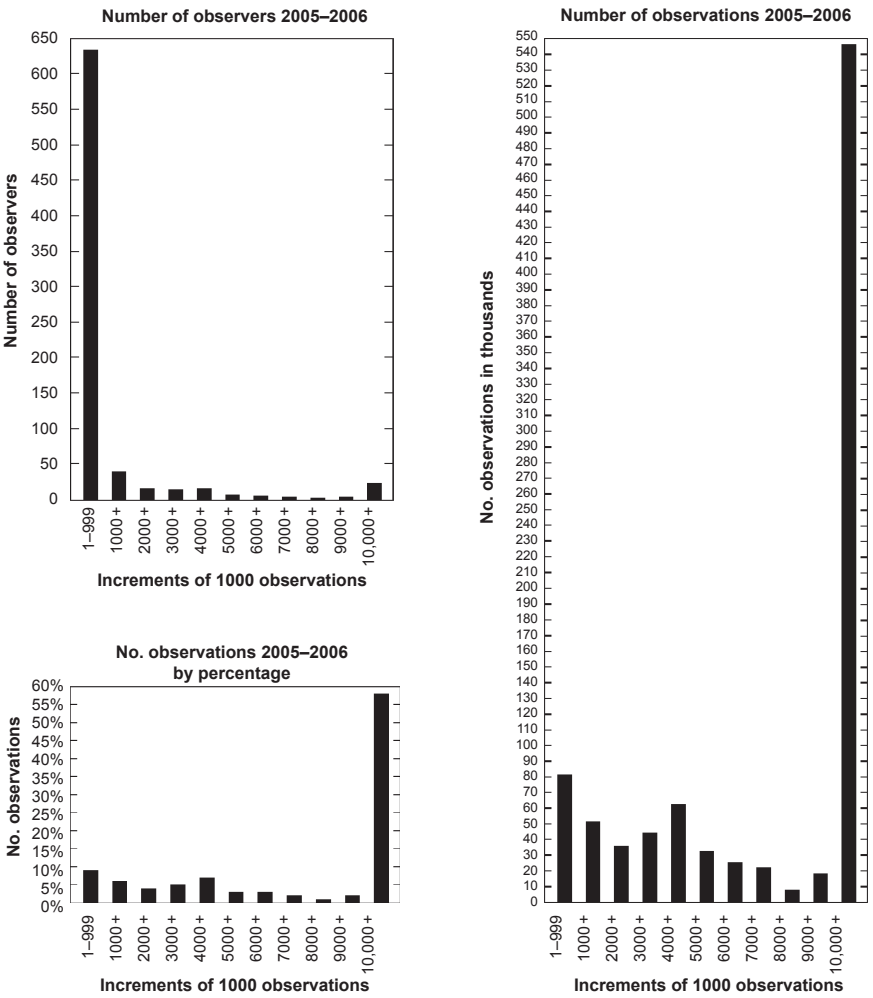


Figure 2. "Megasteps" of the AAVSO—the year in which each half-millionth observation was contributed to the AAVSO International Database, and the name of the observer credited with making the observation.



Figures 3, 4, and 5. These figures represent the information given in Table 4. Figure 3(top left) shows the number of observers, each of whom contributed 1–999; 1,000–9,999 (in increments of 1000), and 10,000 or more observations in fiscal 2005–2006. Figure 4 (right) shows, for each increment of 1,000 observations, the total number of observations contributed by the corresponding number of observers shown in Figure 3. Figure 5 (bottom left) shows, for each increment of 1,000 observations, the number of observations given in Figure 4, represented as a percentage of the total number of observations contributed to the AAVSO in

c. Association of Variable Star Observers "Pleione" (Russia)
d. Association Française des Observateurs d'Étoiles Variables (France)
e. Astronomical Society of Southern Africa, Variable Star Section
f. Astronomisk Selskab (Scandinavia)
g. Astronomischer Jugendclub (Austria)
h. Brazilian Observational Network REA
i. British Astronomical Association, Variable Star Section
j. Bundesdeutsche Arbeitsgemeinschaft für Veränderliche Sterne e.V. (BAV) (Germany)
k. Israeli Astronomical Association, Variable Star Section
l. Koninklijke Nederlandse Vereniging Voor Weer-en Sterrenkunde, Werkgroep Veranderlijke Sterren (Netherlands)
m. Liga Ibero-Americana de Astronomia (South America)
n. Madrid Astronomical Association M1 (Spain)
o. Magyar Csillagàszati Egyesület, Valtózocsillag Szakcsoport (Hungary)
p. Norwegian Astronomical Society, Variable Star Section
q. Royal Astronomical Society of Canada
r. Royal Astronomical Society of New Zealand, Variable Star Section
s. Svensk Amator Astronomisk Förening, Variabelsektionen (Sweden)
t. Ukraine Astronomical Group, Variable Star Section
u. Unione Astrofili Italiani (Italy)
v. URSA Astronomical Association, Variable Star Section (Finland)
w. Vereniging Voor Sterrenkunde, Werkgroep Veranderlijke Sterren (Belgium)

5. Special projects

5.1. *AAVSO Monographs*

The *AAVSO Monograph* series has been discontinued (three monographs in preparation are yet to be published), because of the availability of the data online with the validation project.

We expect the publication of the *Observed Minima Timings of Eclipsing Binaries* and *Observed Maxima Timings of RR Lyrae Stars* series to continue. The latest in the *Eclipsing Binary* series (Number 10) has been published this year.

5.2. Validation of the AAVSO International Database

The AAVSO International Database validation project funded by NASA has been completed. This covers most of the AAVSO program stars (except for Orion nebula region variables and NSV/CSV candidates) through 2001. We continue to validate more recent data, with Kerriann Malatesta, Gamze Menali, and Sara Beck performing the majority of the effort. We submitted a NASA unsolicited proposal to complete the validation through the current date, include stars avoided during

the first phase, and improve the software. Kerri is principal author on a paper for the *JAAVSO* on the validation project.

5.3. Charts

The automated chart plotter is now called the Variable Star Plotter (VSP). It went online in beta mode with support for twenty fields, including the fields supporting the NGC 6811 observing campaign. VSP allows observers to customize the size, limiting magnitude, orientation, and center of variable star charts. When the Comparison Star Database is finished in 2007, it will be linked to VSP so that observers can plot a customized version of any current AAVSO star chart.

5.4. Comparison Star Database (CompDB)

The CompDB project was initiated in summer 2003 to create a database of comparison stars on AAVSO charts in preparation for automatic chart making and more efficient comparison star sequence changes.

The team, under the leadership of Team Leader Vance Petriew and headquarters coordinator Aaron Price, has made great progress during the past year in documenting all the active AAVSO charts found on the website (phase one of the project). The Comp Star Database Working Group is nearing the end of phase one, documenting over 70,614 comparison stars on over 4,128 charts. Phase two is underway, and will place the comparison stars into a relational database and perform research to improve the photometric values of each star. A team of observers will be trained to determine sequences for fields that have no available or published photometry.

As an ancillary task to the CompDB, Vance Petriew wrote a white paper on how we should identify (or name) variable stars in the future, getting us away from the Harvard Designation system. The new Universal Identifier (UID) concept has been incorporated into a new software product, the Variable Star Index (VSX) program (by Chris Watson), that is now available on our website.

5.5. AAVSO High Energy Network (HEN)

In May, 2006, Matthew Templeton began coordination of the AAVSO High Energy Network, especially its GRB follow up work for the Joint Astronomical NETwork (JANET). This coordination effort includes monitoring of Swift and other GCN alerts, encouraging follow-ups when warranted, and producing *GCN Circulars* of HEN activity. Templeton prepared GCNCs on GRB060418 along with GRB060807. No positive detections were obtained during the reporting period.

5.6. AAVSO Archive projects

Since October 2004, Michael Saladyga has collected material from the period of Janet Mattei's directorship for the AAVSO archive collections (correspondence, organization, administration), and has begun preliminary arranging of this material (about fifty file storage boxes). The preliminary stage of this archiving will take about six months, with final arranging and cataloguing taking another six months.

About 34% of special collections material and some other AAVSO material are yet to be processed and catalogued. Follow up photocopying of deteriorated papers and photographing/scanning of selected items remain to be done.

5.7. Visual observing manual translations

As part of our commitment to our foreign and visual observers, we are having the *AAVSO Manual for Visual Observing of Variable Stars* translated into multiple languages. The Spanish translation (performed by Council member Jaime Garcia) has been released. The Turkish translation has been completed, but we are still in the editing/formatting process. Tugrul Ussakli and Sabahattin Bilsel from Turkey have done the Turkish translation with Gamze and Haldun Menali performing the editing.

Other translations in progress include Russian, Greek, Japanese, Portuguese, Italian, and Romanian. We would like to support the U.N. official languages, and so are looking for translators for Arabic and Chinese.

5.8. *Eyepiece Views*

We used to have an email/web publication in the 2001/2002 era that was specifically devoted to our visual observers. We have restarted this publication as an electronic newsletter, published every other month. *Eyepiece Views* contains information about new targets, new observing program ideas, and information that is both interesting and helpful for the visual observer. Comments will be added on stars, mostly long period variables, that need more observations, along with other news from time to time. Gamze Menali is the editor, so if you have articles, stories, or ideas, please contact her.

5.9. Photoelectric photometry

James H. Fox has accepted the Chair of the AAVSO Photoelectric Photometry Committee. We have had several campaigns over the past year (such as for IM Peg and RS Oph) for which PEP observations have been strongly encouraged and have been valuable contributions. Several new targets will be the subject of upcoming campaigns. In addition, we continue to support the IR-PEP efforts, using the Optec SSP-4 photometer that can measure at the near-infrared *J* and *H* bandpasses. One of the AAVSO photometers has been sent to Stan Walker in Australia to measure southern LPVs. Doug West remains the IR-PEP coordinator, with support from Matthew Templeton. The PEP archives are being merged into the AAVSO International Database and pipeline processing will be available through the AAVSO website in the near future.

6. Headquarters staff

The headquarters staff remains one of our most important assets. Without these capable people, we would not be able to support our members and observers.

Our present headquarters staff consists of the following: Director Arne Henden;

Senior Technical Assistant/Associate *JAAVSO* Editor Elizabeth Waagen; Staff Astronomer/Assistant *JAAVSO* Editor Matthew Templeton; Technical Assistants Kerriann Malatesta, Michael Saladyga (also *JAAVSO* Production Editor), and Gamze Menali; Administrative Assistant/Membership Services Travis Searle; Technical Assistant, Web Katherine Davis; Technical Assistant, Technology, and Unix Systems Administrator Aaron Price; seven-month full-time Technical Assistant Sara Beck; part-time Data Entry Technician Gloria Ortiz-Cruz; and headquarters Volunteers Carl Feehrer, Arthur Ritchie, and Louis Cohen (through his role as AAVSO Treasurer).

In addition, the following persons are being contracted: Rebecca Turner, Technical Assistant for meeting planning, special request processing, data validation project management; Lenny Abbey, programming, mostly in Visual Basic; and Jane Caton, accounting.

7. Membership

At the 95th Spring Meeting in Rockford, Illinois, 30 new members were elected, one of whom joined as a Sustaining member. At the 95th Annual Meeting in Newton, Massachusetts, 54 new members were elected, one of whom joined as a Sustaining member. Thus, we elected 84 new members during the year, similar to previous years. The list of new members follows the Minutes in each issue of *JAAVSO*.

At the end of fiscal year 2005–2006, we had 1,215 members, with about two-thirds of the membership from the U.S. and Canada, and the remainder being international members in 45 countries.

8. Grants

We have been awarded the following grants this year:

NASA/Swift: a continuing grant for the Swift Joint Afterglow Network (JANET) by doubling the number of sites to ten and providing a postdoc equivalent for mentoring the network.

Swift Cycle 2: a continuing consulting award for the UVOT calibration effort.

NASA Newton X-Ray Multimirror Telescope observing support grant.

Hubble Space Telescope grant to pay for computer hardware.

Theodore H. Dunham Fund for Astrophysical Research: a grant for CCD filters.

Donation of Meade CCD cameras.

Donation of a Polaroid copy stand from USNO.

A grant from Thomas R. Williams for the AAVSO's sponsorship of the October page featuring SS Cyg in the American Astronomical Society 2006 calendar.

Several other grant applications have been submitted, pending action as of the date of this report.

9. Staff research

Arne Henden continued his monitoring studies of new SDSS CVs. So far, he has accumulated some two hundred nights of data on over one hundred individual stars. The first publication from this study should be submitted shortly. He also acquired time series data in support of papers on VarHer04, ASAS J0025, and VarVul05. Arne was also able to calibrate several GRB fields, reduce IM Peg data, and initiate campaigns on TU Cas and V2291 Oph. Arne is finishing his spectroscopic and photometric survey of the open cluster NGC 7790. Work on his textbook, *CCD Photometry*, progresses slowly. To help in reducing the large volumes of data that Arne has accumulated over the years, he has started the "Arne's Stars" project, which will attempt to bring in outside amateur researchers to use archived data and publish papers.

Aaron Price worked on several major research projects this year. The peculiar cataclysmic variable VarHer04 resulted in both a campaign paper as well as a more detailed analysis coordinated by Aaron that will be submitted shortly. He coordinated most of the AAVSO effort on ASAS J0025+1217, and is working on a project with SS Cyg.

Matthew Templeton's main focus this year has been in performing research, both personal and for the AAVSO. Three research projects that are/were directly related to the AAVSO and its observers community were: the publication of an analysis of ASAS 002511+1217.2, completed with science support from Paula Szkody and Arne Henden and published in *Publications of the Astronomical Society of the Pacific*; a study of long term variations in o Cet with Margarita Karovska (in progress); and the development of tools for analyzing large time-series data sets from sky surveys. The project with Margarita Karovska is a subcontract from the Harvard-Smithsonian Center for Astrophysics, and is providing partial support for Matt's time during the fiscal year. He is continuing work on that project as part of his personal research time in the coming fiscal year.

Matt has worked on several personal research projects during the last fiscal year, either as continuations of previous research efforts, or as new research projects. For example, he has continued his collaboration with Lee Anne Willson that began with the survey of period changes in Mira variables. He appeared as a co-author on a talk presented at the IAU General Assembly on this work, and he is also close to completing a *JAAVSO* article on RU Vul with Willson and Grant Foster as co-authors. Matt is also working to complete a study of variables found by Howell *et al.* in NGC 2301. This work has dovetailed with the development of large-scale time-series analysis methods, because the sample size (about 4000 stars) is "small" compared to those found in large-scale surveys like ASAS, LONEOS, and (presumably) Pan-STARRS.

Matt is also continuing a research collaboration with Robert Zavala of the Navy Prototype Optical Interferometer (NPOI, USNO-Flagstaff) to make interferometric images of stars of interest to the AAVSO community; he is currently developing an observing proposal for NPOI's Spring 2007 observing season.

10. Meetings and talks

10.1. Meetings attended by Arne Henden October 1, 2005, to September 30, 2006:

Swift Ultraviolet/Optical Telescope (UVOT) meeting, Surrey, England, November 2005

Lowell Observatory Near Earth Object Search (LONEOS) meeting, Flagstaff, AZ, February 2006

The Hoffleit Centennial: A Year of Celebration conference, New Haven, CT, April 2006

Standardization Conference, Blankenberge, Belgium May 2006

The Nature of V838 Mon and Its Light Echo, IAU Conference, La Palma, May 2006

British Astronomical Association, May 2006

NASA panel review, Washington, DC, June 2006

Royal Astronomical Society of New Zealand (RASNZ) Conference, June 2006

MMO Workshop, Philadelphia, PA, July 2006

International Astronomical Union (IAU) General Assembly, Prague, Czech Republic, August 2006

10.2. Meetings attended by other AAVSO staff members:

Lowell Observatory Near Earth Object Search (LONEOS) meeting, Flagstaff, AZ, Feb 2006 (Aaron Price, Matthew Templeton)

Astronomical Society of the Pacific 118th Annual Meeting, Baltimore, MD, September, 2006 (Aaron Price)

American Astronomical Society Meeting #207, Washington, DC, January 2006, (Aaron Price, Matthew Templeton, Travis Searle)

10.3. Talks given by Arne Henden October 1, 2005, through September 30, 2006:

Approximately fourteen talks given throughout New Zealand, from "Our Violent Universe" (a general astronomy lecture) to "The Enigmatic V838 Mon" (a detailed science talk)

V838 Mon invited talks at the V838 Mon Conference (La Palma), on the photometric evolution and the light echo

A talk on Dorrit Hoffleit's contributions to the AAVSO given at The Hoffleit Centennial: A Year of Celebration conference, New Haven, CT

"All Sky Photometric Surveys" at the Blankenberge Standards conference

Talks describing the AAVSO at Belgian/Dutch, Hungarian, and Czech amateur astronomy meetings

10.4. Talks given by other AAVSO staff members:

Eight-lecture course, "Introduction to Astronomy," at Tufts University, Osher Institute of Lifelong Learning, by Matthew Templeton and Aaron Price

Invited AAVSO talk, "Amateur Contributions to Variable Star Astronomy," Matthew Templeton, presented at the Society for Amateur Scientists convention, Providence, RI; August 26, 2006

11. Publications

The following AAVSO-related publications have been published from October 2005 through September 2006:

11.1. AAVSO Publications

Journal of the AAVSO: Vol. 33, Nos. 1 and 2 (print); Vol. 33, No. 2, Preprint Nos. 12–17, 24, 28, 30 (*eJAAVSO*); Vol. 34, No. 1, Preprint Nos. 18, 19, 21, 22, 23, 25–27, 29, 32–35, 48 (*eJAAVSO*); Vol. 34, No. 2, Preprint Nos. 20, 31, 36–45, 47, 50, 51, 54, 57, 59, 60 (*eJAAVSO*). Edited by Charles A. Whitney, with assistance from Elizabeth O. Waagen, Michael Saladyga, and Matthew Templeton.

AAVSO Bulletin 69, 2006: Predicted Dates of Maxima and Minima of 561 Long Period Variables. Prepared by Elizabeth O. Waagen.

AAVSO Alert Notice, Nos. 327–341. Prepared by Elizabeth O. Waagen and Aaron Price, with assistance from Kerriann Malatesta.

AAVSO Eyepiece Views, Nos. 311–316. Prepared by Gamze Menali, with contributions from Aaron Price and Michael A. Simonsen.

AAVSO Special MyNewsFlash, "EX Hya appears to be in outburst." Prepared by Elizabeth O. Waagen.

AAVSO Special Notice, Nos. 1–19. Prepared by Aaron Price and Elizabeth O. Waagen.

"AAVSO Variable Star of the Season" (AAVSO website). Prepared by Kerriann Malatesta (Winter 2006, "Mira Revisited"), Pamela Gay (Spring 2006, AH Leo), Matthew Templeton (Summer 2006, V4641 Sgr), and Dr. John Percy ("The Remarkable Transformation of V725 Sgr: Autumn Variable Star of the Season").

Observed Minima Timings of Eclipsing Binaries, No. 10. Prepared by Marvin E. Baldwin and Gerry Samolyk.

AAVSO 2006 Ephemeris for Eclipsing Binaries. Prepared by Gerard Samolyk and Marvin E. Baldwin.

AAVSO 2006 Ephemeris for RR Lyrae Stars. Prepared by Gerard Samolyk and Marvin E. Baldwin.

AAVSO Solar Bulletin, Vol. 61, Nos. 9–12; Vol. 62, Nos. 1–4. Prepared by Carl E. Feehrer; SID Reports by Michael Hill.

AAVSO Solar Bulletin, Vol. 62, Nos. 5–8. Prepared by Paul Mortfield; SID Reports by Michael Hill.

AAVSO Newsletter, No. 33. Edited by Travis Searle.

11.2. AAVSO staff publications

Boyd, D., Oksanen, A., and Henden, A., "Measurement of the orbital and superhump periods of the eclipsing cataclysmic variable SDSS J170213.26+322954.1," *JBAA*, 116, 187; 2006

Gerke, J., Howell, S. B., Otero, S., and Henden, A., "Iron Star AS 325: An Unusual Emission Line Eclipsing Binary," 208th Meeting of the AAS, No. 5.07; June 2006.

Henden, A., "Pro-Am Collaboration and the AAVSO, Astrophysics of Variable Stars," in *ASP Conference Series*, Vol. 999, eds. C. Sterken and C. Aerts; 2006.

Malatesta, K. H., Beck, S. J., Menali, G., and Waagen, E. O., "The AAVSO Data Validation Project," *JAAVSO*, 34, 238; 2006.

Price, A., Cohen, L., Mattei, J. A., and Craig, N., "A Needs Analysis Study of Amateur Astronomers for the National Virtual Observatory," *JAAVSO*, 34, 251; 2006.

Price, A., "An Integrated Approach to Outreach With New Media Technologies," ASP 118th Annual Meeting; 2006.

Price, A., Allen, S. L., Fhima, A., Garcia, J., Mahabal, A., Seaman, R., and Williams, R., "The VOEvent Alert Messaging System," presented at the 207th Meeting of the AAS, No. 34.02; January 2006.

Price, A., Gay, P., Searle, T., and Brissenden, G., "A History and Informal Assessment of the Slacker Astronomy Podcast," *AEdRv*, 5, 53.

Price, A., Gay, P., Searle, T., and Brissenden, G., "An Assessment of Slacker Astronomy Outreach Results," presented at the 207th Meeting of the AAS; No. 67.16; January 2006.

Price, A., *et al.*, "Planetary Transits of the Trans-Atlantic Exoplanet Survey Candidate TrES-1b," *JAAVSO*, 34, 17; 2005.

Price, A., *et al.*, "Untangling a New Short Period Dwarf Nova and Its Close Companion," submitted to *PASP*; August, 2006.

Saladyga, M., "Note on a Determination of the Date of the Founding of the AAVSO," *JAAVSO*, 34, 264; 2006.

Templeton, M. R., "Photometric Surveys and Variable Stars" (ppt file), presented at the USNO Flagstaff Station; February 24, 2006.

Templeton, M. R., "From Submission to Publication," prepared for the AAVSO Workshop on Writing and Publishing Scientific Papers; May, 2006.

Templeton, M. R., "Amateur Contributions to Variable Star Astronomy," presented at the Society for Amateur Scientists convention, Providence, RI; August 26, 2006.

Templeton, M. R., and Price, A., "Campaign '04: AAVSO Observing Campaigns in 2004," *JAAVSO*, 33, 160; 2005.

Templeton, M. R., West, J. D., Terrel, D., Hodgson, W. D., Koppelman, M. D., Luedeke, K. D., Wood, J. E., and Henden, A., "Preliminary Results from the AAVSO Infrared Photometry Group," presented at the 207th Meeting of the AAS, No. 122.17; January 2006.

Templeton, M. R., *et al.*, "The Recently Discovered Dwarf Nova System ASAS J002511+1217.2: A New WZ Sagittae Star," *PASP*, 118, 236; 2006.

Waagen, E. O., "V1118 Orionis," in *IAU Circular 8626*, ed. D. W. E. Green; 2005.

Waagen, E. O., "Nova in the Large Magellanic Cloud," in *IAU Circular 8636*, ed. D. W. E. Green; 2005.

Waagen, E. O., "RS Ophiuchi," in *IAU Circular 8688*, ed. D. W. E. Green; 2006.

11.3. Publications with AAVSO assistance

Balman, S., Retter, A., and Bos, M., "The Detection of a 3.5-h Period in the Classical Nova Velorum 1999 (V382 Vel) and the Long Term Behavior of the Nova Light Curve," *AJ*, 131, 2628; 2006.

Barlow, E. J., *et al.*, "20-100 keV properties of cataclysmic variables detected in the INTEGRAL/IBIS survey," *MNRAS*, 372, 244; 2006.

Hachisu, I., *et al.*, "The Hydrogen Burning Turn-off of RS Ophiuchi 2006," submitted to *ApJ Lett*., 651, L141; 2006.

Kiss, L. L., Szabo, Gy. M., and Bedding, T. R., "Variability in red supergiant stars: pulsations, long secondary periods and convection noise," *MNRAS*, 372, 1721; 2006.

Kotnik-Karuza, D., *et al.*, "The effect of dust obscuration in RR Tel on optical and IR long-term photometry and Fe II emission lines," *AA*, 452, 503; 2006.

Massey, P., Levesque, E. M., and Plez, B., "Bringing VY Canis Majoris Down to Size: An Improved Determination of Its Effective Temperature," *ApJ*, 646, 1203; 2006.

Neustroev, V. V., Zharikov, S. V., and Michel, R., "Simultaneous photometry and echelle-spectroscopy of the dwarf nova BZ Ursae Majoris during the 2005 January outburst," *MNRAS*, 369, 369; 2005.

Rudnitskii, G. M., and Pashchenko, M. I., "Long-Term Monitoring of the Long-Period Variable Y Cassiopeiae in the 1.35-cm Water-Vapor Line," *Astron. Lett.*, 31, 11, 760; 2005.

Shears, J., Pickard, R., and Poyner, G., "CG Draconis, a particularly active dwarf nova," *JBAA*, 117, 22; 2007.

12. Awards and recognition

12.1. AAVSO Observer Awards

At the AAVSO Spring meeting in Rockford, IL, we presented the following AAVSO Observer Awards (list of awardees appears in *JAAVSO*, **35**, 1 following the Minutes):

one award to an observer making 200,000 or more visual observations
four awards to observers making 150,000 or more visual observations
one award to an observer making 100,000 or more visual observations
one award to an observer making 50,000 or more visual observations
four awards to observers making 25,000 or more visual observations
four awards to observers making 10,000 or more visual observations
four awards to observers making 50,000 or more CCD observations
four awards to observers making 25,000 or more CCD observations
six awards to observers making 10,000 or more CCD observations
one award to an observer making 2,500 or more PEP observations

At the AAVSO Annual meeting in Newton, MA, we presented the following AAVSO Solar Observer Awards (list of awardees appears in this issue of *JAAVSO* following the Minutes):

9 observers making 1,500 sunspot observations
2 observers making SID observations

12.2. AAVSO Nova Award

An AAVSO Nova Award was made to Peter Williams, of Heathcote, NSW, Australia, for his visual discovery of Nova Ophiuchi 2006 No. 2 (V2576 Oph) on Apr. 6.565 UT. The award was announced at the 95th Annual Meeting in Newton, MA.

12.3. AAVSO Merit Award for 2006

The Merit Award is given infrequently in recognition of someone who, in the opinion of the AAVSO Council, has made an outstanding contribution as an observer, or as a long-standing benefactor. At the Annual meeting, the 38th Merit Award was presented to Louis Cohen of Cambridge, Massachusetts—"in recognition of his outstanding service as Treasurer and as a trusted, steady advisor to the Directors throughout a period of fiscal and administrative uncertainty; and his guidance in reinvesting and restructuring the AAVSO's endowments, assuring the Association's financial security. His excellence in service, volunteerism, willingness to share knowledge and mentor observers, and his valued observations exemplify the ideals of the AAVSO." The award was presented to Lou at the 95th Annual Meeting in Newton, Massachusetts.

12.4. AAVSO Olcott Award for 2006

The William Tyler Olcott Distinguished Service Award is given by the AAVSO Council to a member of the AAVSO organization for outstanding contributions in mentoring/promoting variable star astronomy. At the Annual meeting, the Olcott Award was presented to Mary Ann Kadooka of Honolulu, Hawaii—"who is known throughout the physics and astronomy education communities for her tireless efforts in motivating scientific learning and authentic research experiences for teachers and students.

"Mary's desire to promote science learning has reshaped her life, changing a would-be school vice-principal into an educator at the University of Hawaii's Institute for Astronomy. Recognizing that teaching is her calling, Mary jumped from 32 years in the high school classroom teaching physics to the teacher-training classroom, allowing her to multiply the number of students she can affect by the number of teachers to whom she can spread her knowledge of and passion for astronomy. After retiring from the classroom, Mary had hoped to work part-time developing teacher education programs and spend the rest of her time engaging in her other passion: travel. Instead, Mary is now working more than full-time developing and directing all of the outreach for the University of Hawaii's NASA Astrobiology Institute, and is working with the University of Washington's Space Science Network Northwest (S2N2) program for Hawaii. She now makes a national impact with her evangelical educational efforts.

"At the heart of many of the programs Mary promotes are authentic research experiences, including observational astronomy projects that use the variable stars we love. In having teachers and their students looking up, she engages them in our core mission of observing and recording as she inspires the next generation of observers, one learner at a time.

"Through her involvement with the AAVSO, the American Association of Physics Teachers, and the NASA Astrobiology Institute, Mary has spread the ideal that science is for everyone, no matter what future career may be in store, and that everyone can learn and love astronomy, whether they be poet, painter, or even physicist. Mary is learning, too, that to teach, you keep learning, and she is delighted that her full-time job now requires travel to astronomy meetings all over the world." The award was presented to Mary at the 95th Annual Meeting in Newton, Massachusetts.

12.5. Special Awards for 2006

On occasion, the AAVSO gives out special awards to individuals for their outstanding service in a category not recognized by another award. This year, we give a Special Recognition Award to Christopher L. Watson—"for his dedicated efforts in supplying cutting-edge technological services to both the AAVSO and the astronomical community as a whole. His Variable Star Index (VSX) program is assisting thousands of variable star observers and researchers in their mutual quest to understand these enigmatic points of light." The award was presented to Chris at the 95th Annual Meeting in Newton, Massachusetts.

12.6. Staff Recognition Award for 2006

Kerriann H. Malatesta received her Staff Recognition Award for ten years of service with the AAVSO. The award was presented to her by Director Arne A. Henden.

13. Obituaries

Unfortunately, we always seem to lose some of our most important and familiar members and friends. This year has been no different.

Barbara Silva—Stoneham, MA; AAVSO Headquarters. Barbara started at the AAVSO in 1979 as a data entry technician ("keypuncher" in the language of the day), becoming expert in accurately and quickly entering variable star observations, interpreting observers' handwriting, and remembering their reporting idiosyncrasies. In her twenty-four-plus years, Barbara keypunched/verified over 5.5 million observations, including 1.2 million in the 1911-1961 archival data project. She also helped with headquarters projects large and small. Barbara was a true family person, with many beloved siblings and offspring. The AAVSO was her second family, and she in turn was a close member of the AAVSO family. We miss her cheery and comfortable presence, her concern and wise advice, and her sometimes wicked (but always ladylike) sense of humor.

Carl F. Kurtz—Bethlehem, PA. A Life Member of the AAVSO, Carl joined the organization in the Fall of 1926. He was an AAVSO member longer than anyone else in the organization's history. Over the course of his eight decades as a member and observer Carl made 480 variable star observations for the AAVSO. He taught astronomy in Westfield, NJ, and volunteered at the Sperry Observatory where he assisted the public with the use of the telescope and gave occasional lectures. He also volunteered at the Union County College campus for fifteen years. Carl loved to travel and visited over seventy countries during his lifetime, which included trips to observe seventeen solar eclipses. He was 98.

Dr. Eugene C. Larr—Encinitas, CA. Eugene was a long-time AAVSO member who supported the work of the organization for many years. He was also the founder of Larr Optics and Electronics in California.

Earl Ostroff—Westport, MA. Earl first joined the AAVSO in the 1970s when Margaret Mayall was Director. He valued his membership, appreciated the Journals, and the annual holiday cards from Margaret and then from Janet Mattei. He unexpectedly met Janet at a Brandeis reunion in 1995. He read all things astronomical, avidly followed the annual astronomical calendars, and loved to explain the skies to his family and friends. He donated his telescope and accessories to Philips Exeter Academy in New Hampshire.

Peter Quinn—Racine, WI. Peter joined the AAVSO in 1980 at the age of seventeen and had been a Sustaining member since 1999. A dedicated amateur, Peter belonged to the local Racine Astronomical Society and regularly attended star parties. He contributed 387 observations to the AAVSO International Database between 1980 and 2003.

14. Acknowledgements

With appreciation and gratitude, we thank all who have contributed to the Association this year. We remember Clint Ford and are grateful to him for providing us with our own headquarters and with a legacy that assures a sound future for the AAVSO.

We remember Margaret Mayall for her dedicated service to the AAVSO, for making it survive during very hard times, and for the bequest that she and Newton made to assure the sound future of the AAVSO.

We remember Janet Akyüz Mattei for her devotion and her contributions to the AAVSO that led to its present state as the world's largest variable star observing organization and one highly respected by the international professional astronomical community, committed to science education worldwide, and dedicated to the fostering of professional-amateur astronomical collaboration.

Our appreciation and thanks go to our enthusiastic and dedicated observersùthis year, 751 of them from 45 countriesùwho are the heart of the AAVSO and whose ongoing efforts make this association vital to variable star research. Additional thanks go to all those who have contributed to the Quick-Look file for *MyNewsFlash*, *Special Notices*, and *Alert Notices* to our special observing programs.

Our thanks go to our members for their support of the AAVSO with their dues; special thanks to those who are sponsoring the membership of an active observer, and to those who have generously contributed above their dues so that we may serve you, our members, and the astronomical community well.

Our sincere thanks and appreciation go to our Committee Chairs who give of their time and wisdom so generously to the Committee(s) for which they are responsible: Gary Walker, Marvin Baldwin, Rev. Kenneth Beckmann, Carl Feehrer, Mike Hill, Paul Mortfield, and Rev. Robert Evans.

Our Officers and Council have continued to be steadfast and devoted to the association this year. We appreciate the contributions and support of our Vice Presidents Paula Szkody and Charles Pullen, our Clerk Michael Mattei, our Council members Barry Beaman, Gary Billings, Lewis Cook, Jaime Garcia, Pamela Gay, Karen Meech, Arto Oksanen, Michael Simonsen, and our Past President William Dillon.

We especially thank David B. Williams, our President, whose unanticipated responsibilities continued this year, for his time, wisdom, and support.

Special thanks go to Gary Walker for taking on the office of Secretary and for his dedication and enthusiasm.

We are most grateful to our Treasurer, Lou Cohen, for his wisdom, guidance, and generous contribution of time, and to our accountant Jane Caton, for her careful work and dedication.

Sincere thanks go to Mike Simonsen for his overseeing our Mentorship program, and to Doug Welch for his administration of our on-line Discussion Group and HEN Discussion Group.

Our thanks go to Bruce Sumner for his work on comparison star sequences for AAVSO charts, to Charles Scovil, Marc Biesmans, AAVSO Chart Team leader Mike Simonsen, and all the Chart Team members for their work on AAVSO charts, and to AAVSO Comparison Star Database Project Team Leader Vance Petriew and all the CompDB Team members for their work on digitizing and cataloguing the comparison stars on all AAVSO charts.

Our sincere thanks go to Charles Whitney for his continuing editorship of the Journal of the AAVSO.

Our sincere thanks go to John Percy for his ongoing excellent editorship of the AAVSO Photoelectric Photometry Newsletter and for his support of the AAVSO Photoelectric Photometry program. Our thanks and appreciation go to Len Abbey for his valuable contributions in programming.

Our sincere thanks go to AAVSO Headquarters volunteer Arthur Ritchie for his ongoing assistance with digitizing monthly sunspot reports, and for his cheerful assistance with other projects large or small.

Thanks go to Stamford Observatory for allowing Charles Scovil to use the 22-inch telescope for making variable star observations, and for allowing Charles Scovil to use the facilities of the observatory to prepare charts.

We have been fortunate to receive financial support from institutions and government agencies this year, and we acknowledge this support with thanks and appreciation.

We are grateful to have the support of so many individuals and organizations!

The AAVSO has had an excellent year. With your continuing help, we hope to make significant advances during the upcoming year.

Table 1. AAVSO Observer Totals 2005–2006 by Country*

Country	*No. Observers*	*No. Obs.*	*Country*	*No. Observers*	*No. Obs.*
ARGENTINA	28	617	JAPAN	4	1,707
AUSTRALIA	32	68,116	MALTA	1	29
AUSTRIA	4	601	NETHERLANDS	13	8,765
BELARUS	3	25	NEW ZEALAND	2	26,191
BELGIUM	21	82,077	NORWAY	6	12,578
BERMUDA	1	11	PERU	2	17
BRAZIL	22	3,485	PHILIPPINES	1	8
CANADA	33	118,631	POLAND	22	18,273
CHILE	3	65,395	PORTUGAL	4	7,184
CROATIA	1	14,210	ROMANIA	12	9,458
CYPRUS	1	101	RUSSIA	5	3,610
CZECH REPUBLIC	2	124	SINGAPORE	2	6
DENMARK	3	19,371	SLOVAKIA	1	2,374
ENGLAND	30	44,506	SOUTH AFRICA	8	62,046
FINLAND	10	6,000	SPAIN	31	10,801
FRANCE	29	31,600	SWEDEN	5	1,671
GERMANY	42	17,885	SWITZERLAND	4	504
GREECE	11	4,195	TURKEY	2	630
HUNGARY	43	9,026	UKRAINE	4	581
INDIA	3	48	UNITED ARAB EMIRATES	1	12
IRAN	1	123	USA	265	264,507
IRELAND	3	194			
ISRAEL	2	186	TOTAL	751	932,119
ITALY	28	14,640			

Table 2. AAVSO Observer Totals 2005–2006 USA by State or Territory*

State		*No. Observers*	*No. Obs.*	*State*		*No. Observers*	*No. Obs.*
ALABAMA	(AL)	1	58	NEBRASKA	(NE)	2	171
ARIZONA	(AZ)	15	13,739	NEVADA	(NV)	2	95
ARKANSAS	(AR)	1	9	NEW HAMPSHIRE	(NH)	2	6,855
CALIFORNIA	(CA)	36	23,012	NEW JERSEY	(NJ)	2	45
COLORADO	(CO)	6	112	NEW MEXICO	(NM)	7	56,878
CONNECTICUT	(CT)	5	1,127	NEW YORK	(NY)	11	5,815
FLORIDA	(FL)	8	23,429	NORTH CAROLINA	(NC)	3	15
GEORGIA	(GA)	3	1,258	OHIO	(OH)	8	588
HAWAII	(HI)	2	1,288	OKLAHOMA	(OK)	5	585
ILLINOIS	(IL)	16	11,818	OREGON	(OR)	2	38,594
INDIANA	(IN)	7	4,724	PENNSYLVANIA	(PA)	8	1,116
IOWA	(IA)	2	1,160	PUERTO RICO	(PR)	1	61
KANSAS	(KS)	4	6,760	RHODE ISLAND	(RI)	3	207
KENTUCKY	(KY)	1	89	TENNESSEE	(TN)	4	290
LOUISIANA	(LA)	3	256	TEXAS	(TX)	14	4,854
MAINE	(ME)	3	3,403	UTAH	(UT)	1	143
MARYLAND	(MD)	14	2,359	VIRGINIA	(VA)	6	446
MASSACHUSETTS	(MA)	21	20,629	WASHINGTON	(WA)	5	231
MICHIGAN	(MI)	10	3,660	WEST VIRGINIA	(WV)	2	666
MINNESOTA	(MN)	7	6,181	WISCONSIN	(WI)	9	21,748
MISSOURI	(MO)	2	32				
MONTANA	(MT)	1	1	TOTAL		265	264,507

** Please note that the totals shown here include provisional Eclipsing Binary and RR Lyrae star numbers; final numbers will be included in the AAVSO website (www.aavso.org).*

Table 3. AAVSO Observers, 2005–2006.*

Code	*Org.*	*Name*	*No. Obs.*	*Code*	*Org.*	*Name*	*No. Obs.*
AFO		A. Abascal Fontecha, Spain	28	BXH		R. Barros, Brazil	24
AAP		A. Abbott, Canada	4081	BYO		T. Barry, Australia	215
AAN	02	A. Abe, Germany	104	BVT		T. Bartlett, TX	57
ACH	01	C. Accary, France	5	BJOH		J. Baxter, CA	764
ARL	13	R. Alencar Caldas, Brazil	6	BBA		B. Beaman, IL	844
AWL		W. Alexander, VA	131	BWX	27	A. Beaton, Canada	381
ASAS2		All Sky Automated Survey2, Chile	64972	BJS		J. Bedient, HI	167
				BYE		J. Beninger, Singapore	1
ASAS3		All Sky Automated Survey3, Chile	416	BTY		T. Benner, PA	227
				BBE	03	B. Berente, Hungary	8
ACO		C. Allen, Sweden	779	BEB		R. Berg, IN	2
AJC	13	J. Almeida, Brazil	13	BIZ		J. Bialozynski, AZ	949
AJV	15	J. Alonso, Spain	100	BIC	01	L. Bichon, France	9026
AKV		K. Alton, NJ	11	BMM	05	M. Biesmans, Belgium	643
AAA	12	A. Alves, Brazil	30	BGW	27	G. Billings, Canada	34
AAQ	03	A. Ambrus, Hungary	19	BHG		G. Birsianis, Greece	34
AAX	13	A. Amorim, Brazil	1124	BCO		C. Birza, Romania	97
ALC		L. Amorim, Brazil	12	BXN	01	M. Bisson, France	184
AKG	19	K. Andersson, Sweden	9	BXT	08	T. Bjerkgard, Norway	3
AJE		J. Andrei, Romania	5	BKL		J. Blackwell, NH	249
ABG	08	B. Andresen, Norway	12	BWJ		J. Bohdanowicz, Canada	5
AKO		K. Apostolidis, Greece	28	BZH		J. Bohusz, Poland	40
AJN		J. Appleyard, Canada	27	BQG		G. Bokowy, IL	15
AWJ		W. Aquino, NY	218	BVS		S. Bolzoni, Italy	10
AWY	13	W. Araujo, Brazil	70	BZU		M. Bonnardeau, France	75
AAT	15	A. Ardanuy, Spain	68	BRJ		J. Bortle, NY	4418
AEN		E. Arevalo, Argentina	3	BMU	04	R. Bouma, Netherlands	22
AFW		F. Argelander, Germany	110	BDG	20	D. Boyd, England	17891
AAM		A. Arminski, Poland	6	BFI		F. Boyer, OH	14
AMN		M. Armstrong, AZ	251	BMK		M. Bradbury, IN	265
ADN		D. Arnautovic, Australia	23	BXS		S. Brady, NH	6606
ARJ		J. Arnold, AL	58	BNW	02	W. Braune, Germany	106
ARN	01	L. Arnold, France	10	BXI		D. Breit, CA	20
ATE		T. Arranz, Spain	6	BTB		T. Bretl, MN	235
ATI	03	T. Asztalos, Hungary	948	BHA	02	H. Bretschneider, Germany	1375
AXU		_. Aube, France	6	BQE		E. Briggs, Canada	56
APOG		Auckland Photo. Obs. Grp., New Zealand	4382	BOS	05	E. Broens, Belgium	5
				BJQ		J. Brooks, CA	25
ADI	02	D. Augart, Germany	609	BQS	15	J. Bros, Spain	19
AAV		A. Avtanski, CA	17	BXV	15	X. Bros, Spain	86
ARX		R. Axelsen, Australia	112	BOA	01	A. Bruno, France	23
BIX		I. Bacon, Australia	146	BHU		R. Buchheim, CA	3
BWY		W. Bailey, NJ	34	BGO		R. Bunge, MD	22
BIE	05	A. Baillien, Belgium	373	BXE		E. Burichel, Brazil	95
BWW		W. Bakewell, CA	3	BIW		N. Butterworth, Australia	3740
BAH		A. Balcerek, Poland	3	CCB		C. Calia, CT	376
BCD		R. Ball, England	20	CMN		R. Cameron, Australia	14
BIV	03	I. Balogh, Hungary	215	CMQ		P. Camilleri, Australia	4
BQU		E. Balza, Argentina	3	CPN		P. Campbell, Canada	141
BVN		M. Banfi, Italy	10	CMP		R. Campbell, FL	446
BGZ		G. Banialis, IL	39	CZJ		J. Canelhas, Portugal	62
BXA	09	A. Baransky, Ukraine	57	CEM	15	E. Capella, Spain	77
BBO		B. Barnes, TX	14	CXN		J. Carlson, MA	3098
BSR	18	S. Baroni, Italy	127	DYO01		J. Carlson, MA	2
BIU		I. Barros, Brazil	2	DYO02		J. Carlson, MA	3

Table 3. AAVSO Observers, 2005–2006, cont.

Code	*Org.*	*Name*	*No. Obs.*	*Code*	*Org.*	*Name*	*No. Obs.*
DYO03		J. Carlson, MA	1	CKB		B. Cudnik, TX	1193
DYO04		J. Carlson, MA	1	CUU		J. Curto Amigo, Spain	259
DYO05		J. Carlson, MA	3	DQR		R. D'Imperio, VA	2
CPZ		P. Carrizo, Argentina	5	DL		L. Dahlmark, Denmark	19337
CVJ	06	J. Carvajal Martinez, Spain	7	DAM	06	A. Darriba Martinez, Spain	168
CFH		F. Carvalho, Brazil	1	DMP		M. Dasgupta, India	7
CRI	15	R. Casas, Spain	106	DJS	20	J. Day, England	436
CJS		J. Case, MO	28	DPP	05	P. De Ponthiere, Belgium	7531
CLQ		L. Cason, VA	47	DSJ	13	J. De Souza Aguiar, Brazil	13
CKN		K. Castle, AZ	5	DFR		F. Dempsey, Canada	14
CWO		W. Castro, OH	17	KJP		J. Derdzikowska, Poland	155
CQJ		J. Centala, IA	1146	DAT		A. Derdzikowski, Poland	377
CBI		B. Chandler, CA	15	DNO		O. Deren, Poland	294
CNT		D. Chantiles, CA	498	DAC		A. Deshmukh, India	1
CGF		G. Chaple, Jr., MA	5806	DSI		G. Di Scala, Australia	23388
CGP	27	G. Charpentier, Canada	5	DDD		D. Dickinson, AZ	115
CKJ		J. Cheng, PA	24	DPA	05	A. Diepvens, Belgium	919
CWN		W. Cheng, CA	10	DRG		R. Diethelm, Switzerland	303
CGU		G. Chew, Singapore	5	DLA		A. Dill, KS	66
CDH		D. Chicuta Macedo, Brazil	1	DIL		W. Dillon, TX	14
CCY		C. Chiselbrook, GA	1058	DRL		S. Dirocco, OH	34
CLK		W. Clark, MO	4	DSN		S. Donnell, CO	81
CPS	05	P. Cloesen, Belgium	583	DDB		D. Douglass, PA	2
CPE		P. Closas, Spain	119	DXA		A. Douvris, Greece	17
CKH	05	H. Coeckelberghs, Belgium	20	DPV		P. Dubovsky, Slovakia	2374
CCT	13	C. Colesanti, Brazil	1080	DMO	01	M. Dumont, France	665
COL		P. Collins, AZ	1	CLW01		D. Durig, TN	6
CME	18	E. Colombo, Italy	312	DAO		A. Dutton, Australia	130
CMG	04	G. Comello, Netherlands	5109	DKS		S. Dvorak, FL	19253
CPO		P. Conde, Australia	10	DGP		G. Dyck, MA	3028
CPC		P. Condori, Argentina	3	EMA		M. Eichenberger, Switzerland	73
COO		L. Cook, CA	12842	EER		E. Eker, Turkey	607
CK		S. Cook, NM	61	EJI		J. Elliott, NC	4
CWT		W. Cooney, LA	175	EM		G. Emerson, CO	4
COM	10	T. Cooper, South Africa	350	EPE	01	P. Enskonatus, Germany	281
CPI		P. Corelli, Italy	1	ERB		B. Eramia, WA	143
CUA		A. Corlan, Romania	834	EJO	03	J. Erdei, Hungary	266
CXR		R. Corlan, Romania	927	EMC		M. Etcheverry, Argentina	5
CDV		D. Cornell, IL	30	FBO		B. Fain, MT	1
CLZ	01	L. Corp, France	1	FSU		S. Fanutti, Canada	6
CAI		A. Correia, Portugal	3547	FEO	03	E. Farkas, Hungary	108
CNQ		N. Costa, Portugal	3	FMF		M. Farkouh, Argentina	8
CIO		I. Costache, Romania	9	FJG		J. Favaron, Brazil	18
COV		V. Coulehan, NY	184	FAJ	03	A. Fejes, Hungary	107
CWD		D. Cowall, MD	1	FJP	15	J. Felip, Spain	13
CXO		J. Cox, England	26	FBA		B. Ferguson, OK	16
CR	14	T. Cragg, Australia	414	FOM	15	M. Fernandez-Ocana, Spain	131
CFY		J. Craig, MA	63	FGO		G. Ferrero, Peru	1
CTX		T. Crawford, OR	28519	FRF	03	R. Fidrich, Hungary	373
CMY	20	M. Crook, England	28	FMS		M. Figueroa, Argentina	3
CRR		R. Crumrine, NY	100	FGN		G. Fleerackers, Belgium	14
PHS02		J. Cruwys, Australia	24	FMU	15	M. Flores, Spain	5
CZM	03	S. Csizmadia, Hungary	10	FLE		L. Florin, Romania	22
CTI	03	T. Csorgei, Hungary	253	FDA	03	A. Fodor, Hungary	23
CSM	03	M. Csukas, Romania	796	FFC	03	F. Foldesi, Hungary	6

Table 3. AAVSO Observers, 2005–2006, cont.

Code	*Org.*	*Name*	*No. Obs.*	*Code*	*Org.*	*Name*	*No. Obs.*
FMR		M. Fonovich, Croatia	14210	HTQ		T. Harriman, CA	8
FJQ		J. Foster, CA	14	HBB		B. Harris, FL	12
FXJ		J. Fox, MN	105	HMQ		M. Harris, GA	123
FTH		T. Fox, TX	6	HEQ		E. Hartwig, Germany	105
FBN	10	B. Fraser, South Africa	106	HAV		R. Harvan, MD	710
FML	04	C. Fridlund, Netherlands	45	HJK		J. Hauk, CO	14
FAA	18	A. Frosina, Italy	20	HHU	05	H. Hautecler, Belgium	2197
FMG		G. Fugman, NE	123	HKY	27	K. Hay, Canada	51
GBZ	21	O. Gabzo, Israel	168	HAB		R. Hays, Jr., IL	1103
GHT	27	G. Gaherty, Canada	84	HBD		B. Heathcote, Australia	481
GMO		M. Gainer, PA	16	HKN		K. Hedrick, WV	58
GTN		T. Gandet, AZ	8	HEX		E. Heis, Germany	9
GFE	12	F. Garcia, Argentina	3	HQA		A. Henden, MA	3902
GTY	09	T. Garkusha, Ukraine	7	HGO		G. Henson, TN	86
GPG		P. Garossino, TX	1	HMP		M. Heredia, Argentina	5
GBL		B. Gary, AZ	671	HES		C. Hesseltine, WI	710
GKI		K. Geary, Ireland	78	HDJ		D. Higgins, Australia	283
GDG		D. Gede, MD	17	HIM		W. Hill, MA	41
GCP	02	C. Gerber, Germany	448	HIR		Y. Hirasawa, Japan	546
GHS		H. Gerner, WI	1515	HJS		J. Hissong, OH	4
GAO		A. Giambersio, Italy	2	HGK		G. Hochstenbach, Netherlands	5
GGU	04	G. Gilein, Netherlands	464	HJX	13	J. Hodar Munoz, Brazil	20
GVN		V. Giovannone, NY	6	HWD		W. Hodgson, Australia	55
GMY		M. Glennon, Ireland	86	HEK	11	E. Hoeg, Denmark	14
GLG		G. Gliba, MD	11	HDF		D. Hohman, NY	17
GFT	01	F. Gobet, France	4226	HJC		J. Holetschek, Germany	105
GFB		W. Goff, CA	6080	HSQ		S. Holland, NC	1
GPU		P. Goldfinger, CA	12	HOO	04	G. Hoogeveen, Netherlands	77
GOT	01	T. Gomez, Spain	3586	HJZ		J. Horne, CA	21
GPJ		P. Gonzales, CA	75	HGV		G. Hornig, Germany	92
GAH		A. Gonzalez, Argentina	5	HOA		A. Howell, FL	2749
GRV		M. Gonzalez, Argentina	3	HJA		J. Hudson, CA	128
GZN	07	A. Gonzalez Herrera, Spain	249	HDU		D. Hurdis, RI	3
GGZ	03	Z. Gorgei, Hungary	208	HUR	20	G. Hurst, England	1940
GGC		G. Gotta, Italy	10832	HSU		S. Hutchins, CO	6
GHH		H. Gowen, MA	31	HTN		K. Hutton, CA	698
GJK		J. Goyette, Canada	13	HUZ	27	R. Huziak, Canada	41487
GKA		K. Graham, IL	4466	NUD02		D. Iden, IL	2
GRL	08	B. Granslo, Norway	541	ILE	03	E. Illes, Hungary	167
GMZ		M. Graziani, Italy	409	IPA	12	P. Ingrassia, Argentina	168
GDY	27	D. Grey, Canada	4	IVM	16	V. Ivanov, Russia	2411
GVD	16	V. Grigorenko, Russia	134	JCC		L. Jacchia, Italy	9
GCO		C. Gualdoni, Italy	2135	JMA		M. Jacquesson, France	85
GUN	01	J. Gunther, France	1388	JTP	01	P. Jacquet, France	93
GGX	04	G. Guzman, France	91	JAT	03	T. Jakabfi, Hungary	46
GYP	03	P. Gyenizse, Hungary	3	JM		R. James, NM	42369
GXA	03	A. Gyorffy, Hungary	10	JFL		F. Jandl, Austria	3
HCS	03	C. Hadhazi, Hungary	614	JRO		R. Januszewski, England	288
HTY		T. Hager, CT	45	JSI	20	S. Jenner, England	4
HKB		B. Hakes, IL	401	JKK	11	K. Jensen, Norway	155
HTL		T. Haley, RI	23	JLR		R. Jepeal, CT	609
HME		M. Haliniak, Poland	4	JOG		G. Johnson, MD	96
HP		W. Hampton, CT	29	JON	05	K. Jonckheere, Belgium	3
HDX		D. Hands, NC	10	JA	14	A. Jones, New Zealand	21809
HMF		M. Hardies, FL	19	JCN	20	C. Jones, England	649

Table 3. AAVSO Observers, 2005–2006, cont.

Code	*Org.*	*Name*	*No. Obs.*	*Code*	*Org.*	*Name*	*No. Obs.*
JJI		J. Jones, OR	10075	LMT		M. Legutko, Poland	317
JKL		K. Jones, Australia	235	LDA		D. Lehman, MD	57
JRW	10	R. Jones, South Africa	46	LDI		D. Lehmann, Germany	19
JRC	15	R. Josa, Spain	45	LNZ		G. Lenz, LA	14
JAX	17	A. Junkkari, Finland	4	LJL		J. Leonard, IL	7
KB		W. Kaminski, NM	18	LNL		N. Lerner, CA	22
KAM	02	A. Kammerer, Germany	28	LEV		A. Leveque, CA	138
KMO		M. Kardasis, Greece	33	LVY		D. Levy, AZ	94
KKI		K. Kasai, Switzerland	42	LIW		W. Liller, Chile	7
KEI		E. Kato, Australia	11	LGO		G. Lilley, GA	77
KGL		G. Kelly, WI	15	LAI	27	A. Ling, Canada	1402
KSH		S. Kerr, Australia	39	LMK		M. Linnolt, HI	1121
KKQ		K. Kessler, MN	1416	LLZ	03	L. Liziczai, Hungary	206
KSZ	03	S. Keszthelyi, Hungary	174	LTE		T. Lloyd-Evans, England	726
KKX		K. Kida, Poland	182	LT		E. Loreta, Italy	9
KRB		R. King, MN	579	LRD		D. Loring, UT	143
KSJ	27	S. Kinsella, Canada	28	LDS		D. Loughney, England	183
KCQ		C. Kirby, NM	112	LFZ		F. Lucidi, Italy	18
KIR		P. Kirby, AZ	498	LMJ		M. Luostarinen, Finland	89
KBR		B. Kirshner, CA	5	MDW		W. MacDonald II, Canada	4866
KIL	03	L. Kiss, Australia	1236	MAL		R. MacLaren, WI	58
KPC		P. Klages, England	7	MMT	17	M. Maenpaa, Finland	4
KSM		S. Klidis, Greece	1246	MZG	02	G. Maintz, Germany	23
KGE	08	G. Klingenberg, Norway	10731	MLI		L. Maisler, NY	164
KWL		W. Kloehr, Germany	6	MII	03	L. Majzik, Hungary	3
KPL		P. Kneipp, LA	67	MVO	17	V. Makela, Finland	12
KGT		G. Knight, ME	40	MPU		P. Makinen, TX	1
KSP		S. Knight, ME	77	MQL		S. Mandelli, Italy	2
KRS		R. Kolman, IL	3605	MOF		O. Maraev, Russia	304
KMA		M. Komorous, Canada	2380	MWF		W. Marinho Ferreira, Brazil	3
KAY		A. Koohpaee, Iran	123	MPB		P. Marini, Argentina	7
KDZ		D. Kopczynski, Poland	6	MKW		A. Markiewicz, Poland	1323
KMP		M. Koppelman, MN	1044	MXS	03	S. Marosi, Hungary	12
KSG		G. Koronis, Greece	73	MYC		C. Martin, NE	48
KCY		D. Korycansky, CA	124	MRX	02	H. Marx, Germany	844
KOS	03	A. Kosa-Kiss, Romania	6218	MN		H. Mason, NV	55
KLX		L. Koscianski, MD	51	MTH		H. Matsuyama, Australia	6397
KAF	03	A. Kovacs, Hungary	238	MTM		M. Mattei, MA	1
KVI	03	I. Kovacs, Hungary	32	MGE		G. Mavrofridis, Greece	698
KFK		F. Krafka, TX	140	MAZ		M. Mazurek, AZ	81
KTC		T. Krajci, NM	14156	MBE		B. McCandless, MD	325
KWO	02	W. Kriebel, Germany	2300	MCJA		J. McCann, WA	21
KIS	02	G. Krisch, Germany	1804	MKB		K. McCarthy, England	3
KTZ		T. Krzyt, Poland	2210	MUE		R. McDaniel, TX	1361
KSQ		S. Kuznetsov, Russia	679	MBT		T. McDonagh, MA	223
LCR	15	C. Labordena, Spain	312	MDP		P. McDonald, Canada	1098
LSA	17	S. Lahtinen, Finland	4	MCI		B. McInnerny, England	3
LCY		C. Laino, Argentina	5	MCL		D. McLaughlin, MI	155
LGR		G. Landaburu, Argentina	5	MPL		P. McLelland, England	1
LTO	02	T. Lange, Germany	259	MED	20	K. Medway, England	1131
LMF	13	M. Lara, Brazil	79	MIQ		I. Megson, England	704
LMN		M. Larsson, Sweden	4	MMB	04	M. Meiling, Netherlands	1
LZT		T. Lazuka, IL	1252	MHI		H. Menali, MA	639
LEB	01	R. Lebert, France	286	MQZ		M. Mendez Majuelos, Spain	5
LMR		M. Ledesma, Argentina	3	MDJ	12	D. Mendicini, Argentina	183

Table 3. AAVSO Observers, 2005–2006, cont.

Code	*Org.*	*Name*	*No. Obs.*	*Code*	*Org.*	*Name*	*No. Obs.*
MQG		M. Menegotto, Argentina	73	PCC	18	R. Papini, Italy	139
MHQ		H. Menze, Germany	161	PPS	03	S. Papp, Hungary	2155
MTK		T. Michalik, VA	189	PBK		B. Parker, WA	14
MXT		C. Middleton, South Africa	44360	PTQ		T. Parson, MN	2698
MOK	11	O. Midtskogen, Norway	1136	PJJ	15	J. Pastor, Spain	124
MXM		M. Mifsud, Malta	29	PEX	14	A. Pearce, Australia	162
MXL	20	R. Miles, England	1712	PN		A. Pearlmutter, MA	5
MWI		A. Milias, Greece	10	PEI	11	E. Pedersen, Denmark	20
MLL		J. Miller, MD	3	PZR		R. Pedrao, Brazil	11
MTU		T. Miller, NV	40	PEG	01	C. Peguet, France	1364
MZS	03	A. Mizser, Hungary	671	PWD		W. Pellerin, TX	22
MCE		E. Mochizuki, Japan	7	PIV		I. Peretto, Italy	163
MRV		R. Modic, OH	237	PXA		A. Perez, Argentina	5
MPV	03	P. Molnar, Hungary	789	PWM	05	W. Pessemier, Belgium	31
MLF	10	L. Monard, South Africa	1616	PJT	27	J. Petriew, Canada	11
MHC	12	C. Montalvo, Peru	16	PVA	27	V. Petriew, Canada	53034
MNN		N. Montecchiari, Italy	6	PRP		R. Pickard, Australia	4
MXO		C. Montes, Philippines	8	PXR	20	R. Pickard, England	82
MEV	01	E. Morelle, France	58	PBN		B. Pickett, Australia	1
MOI	01	E. Morillon, France	3402	PLQ	01	L. Pinatelle, France	291
MOW		W. Morrison, Canada	4828	PGU	18	G. Pinazzi, Italy	65
MPS	27	P. Mozel, Canada	45	PMZ	15	M. Pinto, Spain	10
MMH		M. Muciek, Poland	13	PFB		F. Pires, Brazil	2
MKH		S. Mukherjee, India	40	PIJ	03	J. Piriti, Hungary	426
MDU		D. Mulinski, Poland	2	PPL		P. Plante, OH	242
MMU		M. Munkacsy, RI	181	PLX		J. Plassmann, Germany	927
MUY	05	E. Muyllaert, Belgium	11251	PPZ		P. Plaszczyk, Poland	25
NZO	03	Z. Nagy, Hungary	10	PAW		A. Plummer, Australia	5694
NDQ		D. Naillon, France	606	AST	12	R. Podesta, Argentina	86
NLX	14	P. Nelson, Australia	3433	PRX		R. Poklar, AZ	4786
NJO	02	J. Neumann, Germany	1145	PMO	10	M. Poll, South Africa	59
NVT		V. Nevski, Belarus	1	PWR		R. Powaski, OH	19
NMI		M. Nicholas, AZ	1737	POX		M. Poxon, England	432
NMR	20	M. Nicholson, England	1581	PYG		G. Poyner, England	9759
NFD	04	F. Nieuwenhout, Netherlands	647	PAI		A. Prokopovich, Belarus	4
NCH		C. Norris, TX	100	PDQ	01	D. Proust, France	9
NCR		C. Norrman, Sweden	1	PZY		J. Pryzby, NY	97
NKL		K. Nuber, Germany	385	PUJ	06	F. Pujol, Spain	818
NHK	17	H. Nylander, Finland	426	PCH		C. Pullen, CA	11
OCN	27	S. O'Connor, Bermuda	11	PHA		H. Pulley, Canada	2419
ONJ		J. O'Neill, Ireland	30	PSY		S. Pyatih, Belarus	20
OSN		S. Oatney, KS	1198	QW	02	W. Quester, Germany	12
OES		D. Oesper, WI	6	RKE	02	K. Raetz, Germany	368
OYE		Y. Ogmen, Cyprus	101	RSQ		S. RaimundoVilloldo,Argentina	3
OAR	17	A. Oksanen, Finland	5109	RRQ		R. Ramelli, Argentina	5
OAD		A. Ormsby, MI	9	RCH	01	C. Ramillon, France	12
OSW		W. Osborn, MI	5	RBK		B. Ramotowski, NM	1
OJR	06	J. Osorio, Spain	2950	RFA		F. Reichenbacher, AZ	4530
OPR		P. Ossowski, Poland	11	RZS	03	Z. Reiczigel, Hungary	8
OSV	03	L. Osvald, Hungary	33	REP	24	P. Reinhard, Austria	345
OAG	06	A. Otero Garzon, Spain	16	RWG	02	W. Renz, Germany	9
OJJ		J. Ott, CO	1	RMQ		M. Reszelski, Poland	609
OJS		J. Ott, KY	89	RNA	03	N. Rezsabek, Hungary	15
OCR	05	C. Otten, Belgium	849	RJG		J. Ribeiro, Portugal	3572
PPK	17	P. Paakkonen, Finland	144	RIX	14	T. Richards, Australia	7467

Table 3. AAVSO Observers, 2005–2006, cont.

Code	*Org.*	*Name*	*No. Obs.*	*Code*	*Org.*	*Name*	*No. Obs.*
RHM		M. Richmond, NY	137	SSA		A. Sharpless, WA	45
RRZ	03	R. Ricza, Hungary	120	SFY		J. Shears, England	1574
RCU		C. Rippel, VA	1	SYC	27	C. Sheppard, Canada	60
RAE		A. Roberts, South Africa	15371	SHB		C. Sherrod, AR	9
RCW		C. Robertson, KS	5264	SLH		L. Shotter, PA	708
RSE		S. Robinson, MD	542	SIG		D. Siegrist, MA	6
RJX	01	J. Roca, France	10	SPAO		P. Siliprandi, Italy	30
RAZ		A. Rodrigues, Brazil	15	SVAL		V. Silva, Argentina	5
RZD	06	D. Rodriguez, Spain	471	SBN	13	A. Silva Barros, Brazil	777
REG		E. Rodriguez, Argentina	5	SNE		N. Simmons, WI	276
RFC		F. Rodriguez Bergali, Spain	490	SXN		M. Simonsen, MI	3047
RMU	07	M. Rodriguez Marco, Spain	1	SJAN		J. Simpson, England	84
RRO		R. Rogge, Germany	2	SYI		E. Skrzynecki, Poland	4635
ROG		G. Ross, MI	267	SDN		D. Slauson, IA	14
RGN		G. Rossi, Italy	87	SDEW		D. Smith, TX	177
RGL	21	G. Rotem, Israel	18	SHA		H. Smith, MI	141
RR		R. Royer, CA	66	SJE		J. Smith, CA	2
RJV	07	J. Ruiz Fernandez, Spain	21	SUI		R. Smith, England	328
RPH		H. Rumball-Petre, CA	13	SKA	16	K. Sokolovsky, Russia	82
REM		E. Rumbo, Australia	2333	SBX		A. Sonka, Romania	7
RTH		T. Rutherford, TN	189	SYP		P. Soron, Canada	2
SJQ		A. Sajtz, Romania	454	SOW	17	J. Sorvari, Finland	72
SSU		S. Sakuma, Japan	1140	SUG		G. Sostero, Italy	56
SIE		A. Salati, Italy	1	SOI		M. Soukup, AZ	9
SVP	15	V. Sallares Pujol, Spain	18	SWQ	13	W. Souza, Brazil	89
SGRA	20	G. Salmon, England	4267	SJZ		J. Speil, Poland	1990
SAH		G. Samolyk, WI	19050	SMUS		M. Spicer, Canada	11
SGAS		G. Sanchez, Argentina	5	SXR	03	M. Sragner Keszthelyi, Hungary	1
SXY		A. Sankowski, Poland	32	SBL	05	B. Staels, Belgium	16381
STC		G. Santacana, PR	61	SBH		B. Standifer, Jr., TN	9
SSIM		S. Santini, Italy	91	STR		R. Stanton, CA	104
SKI	03	K. Sarneczky, Hungary	94	SDB		D. Starkey, IN	2489
SGE		G. Sarty, Canada	2	SJAT		J. Starzomski, Poland	275
SSQ		R. Sass, NM	161	SYO		T. Steck, IN	422
SCHR		C. Sauer, PA	36	STI		P. Steffey, FL	632
SVA		A. Saw, Australia	9	SAA		A. Stephan, FL	4
SDAV		D. Scanlan, England	18	SET		C. Stephan, FL	314
SFI		T. Scarmato, Italy	30	SRB		R. Stine, CA	1054
SXK	02	M. Schabacher, Germany	146	STQ		N. Stoikidis, Greece	275
SDY	02	D. Scharnhorst, Germany	256	SDI		D. Storey, England	133
SFS		S. Schiff, VA	76	SFU		M. Streamer, Australia	5
SIU	02	J. Schirmer, Germany	4	SRX	14	R. Stubbings, Australia	4420
SPK		P. Schmeer, Germany	67	SUK		M. Stuka, CA	13
SHV	03	A. Schmidt, Hungary	88	SAC	02	A. Sturm, Germany	241
SEX		J. Schmidt, Germany	256	SUS		D. Suessmann, Germany	32
SUF		C. Schneider, CA	8	SUH		M. Suhovecky, IN	4
SQE		R. Schoenstene, IL	26	SQC		C. Suslavage, CA	7
SAND		A. Schumann, Germany	13	SWV		D. Swann, TX	485
SWX		T. Schwartz, MI	3	SSW		S. Swierczynski, Poland	5764
SCZ	01	E. Schweitzer, France	54	SAO	03	A. Szauer, Hungary	56
SBEN		B. Schwemlein, OH	21	SLY	03	L. Szegedi, Hungary	58
SQW		W. Selvig, Canada	11	SYV	03	P. Szekely, Hungary	343
SDF		D. Shackleford, CA	144	TDB		D. Taylor, Canada	1861
SHS		S. Sharpe, ME	3286	TBA		B. Tekatch, Canada	30
SDP		D. Sharples, NY	10	TJV	01	J. Temprano, Spain	493

Table 3. AAVSO Observers, 2005–2006, cont.

Code	*Org.*	*Name*	*No. Obs.*	*Code*	*Org.*	*Name*	*No. Obs.*
TDI		D. Terrell, CO	6	VOL		W. Vollmann, Austria	252
TTU		T. Tezel, Turkey	23	WGM		M. Wagner, IL	2
TJE		J. Thibodeau, OK	520	WGR		G. Walker, MA	3400
TGG		W. Thomas, CA	2	WHN	03	H. Walter, Hungary	4
THU	01	B. Thouet, France	98	WJX		J. Wan, Australia	1
TIA	03	A. Timar, Hungary	24	WRS		R. Watt, PA	6
TST		S. Toothman, IL	14	WPT	10	P. Wedepohl, South Africa	138
TDZ		D. Torea, Argentina	5	WEI		D. Weier, WI	68
TSF	18	S. Toschi, Italy	27	WDZ		D. Wells, TX	1283
TSC		S. Tracy, CT	68	WC		R. Wend, IL	5
TVT		V. Tramazzo, AZ	4	WKL		K. Wenzel, Germany	218
TRF		C. Trefzger, Switzerland	86	WEF		F. West, MD	496
TJC		J. Truax, MI	12	WJD		J. West, KS	232
TRX		R. Truta, Romania	7	WDM	19	M. Westlund, Sweden	878
TVS		V. Tsamis, Greece	1	WRP		R. Wheeler, OK	42
TSJ		S. Tsuji, Japan	14	WAH		A. Whiting, MD	5
TUB	03	V. Tuboly, Hungary	4	WI		D. Williams, IN	1449
TXA		A. Tudorica, Romania	82	WIG		G. Williams, IL	7
TYS		R. Tyson, NY	464	WPX	14	P. Williams, Australia	7630
XXX		Unknown, MA	3	WRX		R. Williams, MI	16
VFR	01	F. Vaclic, Czech Republic	56	WSN		T. Wilson, WV	608
VLN	01	L. Vadrot, France	213	WWJ		W. Wilson, England	493
VST		S. Valentini, Italy	23	WCP		C. Windisch, Germany	21
BVE	04	E. Van Ballegoij, Netherlands	2154	WBE		B. Winkelman, OK	2
VBR		H. Van Bemmel, Canada	154	WAS	02	A. Winkler, Germany	392
VDL	05	J. Van Der Looy, Belgium	4184	WAI		A. Winnecke, Germany	69
VDE	04	E. Van Dijk, Netherlands	30	WKM		M. Wiskirken, WA	8
VNL	05	F. Van Loo, Belgium	464	WUL	02	U. Witt, Germany	25
VPJ		J. Van Poucker, MI	5	WEN		E. Woerner, United Arab Emirates	12
VUG	04	G. Van Uden, Netherlands	178	WBT		R. Wolpert, CA	6
VVP	04	P. Van Vliet, Netherlands	23	WJM		J. Wood, CA	18
VWS	05	J. Van Wassenhove, Belgium	49	WPF		P. Wright, MN	104
VBH	05	H. Vandenbruaene, Belgium	5	WUB	04	E. Wubbena, Netherlands	10
VEF	05	E. Vanderfeesten, Belgium	19	YBA		B. Young, OK	5
VMT	05	T. Vanmunster, Belgium	36484	YCM		C. Young, CA	42
VML		M. Varley, MD	23	YDV		D. Young, MA	6
VED	01	P. Vedrenne, France	8126	ZAI		A. Zaiser, Germany	35
VLS		L. Velazquez, Argentina	3	ZAD		D. Zak, PA	97
VEE	05	S. Ver Eecke, Belgium	72	ZFL		F. Zattera, Italy	1
VET	01	M. Verdenet, France	897	ZPA		P. Zeller, IN	93
VAP		A. Veyssiere, Argentina	5	ZAY	09	A. Zhugayevych, Ukraine	176
VIA	01	J. Vialle, France	296	ZIG		I. Zinchenko, Ukraine	341
VAC		A. Vincent, England	3	ZRE		R. Zissell, MA	367
VJA	17	J. Virtanen, Finland	136	ZT		R. Zit, WI	50
VGK		G. Vithoulkas, Greece	1780	ZMV		M. Zverev, Czech Republic	68
VRM		R. Vivaldi, Italy	25	ZTH		T. Zwach, Austria	1
VPZ	03	P. Vizi, Hungary	78				
VFK	02	F. Vohla, Germany	4474				

** Please note that totals shown here include provisional Eclipsing Binary and RR Lyrae star numbers; final numbers will be included in the AAVSO website (www.aavso.org).*

These codes, which appear in the Table (AAVSO Observers 2005–2006), indicate observers are also affiliated with the groups below:

01 Association Française des Observateurs d'Étoiles Variables (AFOEV)
02 Bundesdeutsche Arbeitsgemeinschaft für Veränderliche Sterne e.V. (BAV) (Germany)
03 Magyar Csillagàszati Egyesület, Valtózocsillag Szakcsoport (Hungary)
04 Koninklijke Nederlandse Vereniging Voor Weer-en Sterrenkunde, Werkgroep Veranderlijke Sterren (Netherlands)
05 Vereniging Voor Sterrenkunde, Werkgroep Veranderlijke Sterren (Belgium)
06 Madrid Astronomical Association M1 (Spain)
07 Asociacion de Variabilistas de Espagne (Spain)
08 Norwegian Astronomical Society, Variable Star Section
09 Ukraine Astronomical Group, Variable Star Section
10 Astronomical Society of Southern Africa, Variable Star Section
11 Astronomisk Selskab (Scandinavia)
12 Liga Ibero-Americana de Astronomia (South America)
13 Brazilian Observational Network REA
14 Royal Astronomical Society of New Zealand, Variable Star Section
15 Agrupacion Astronomica de Sabadell (Spain)
16 Association of Variable Star Observers "Pleione" (Russia)
17 URSA Astronomical Association, Variable Star Section (Finland)
18 Unione Astrofili Italiani (Italy)
19 Svensk Amator Astronomisk Förening, Variabelsektionen (Sweden)
20 British Astronomical Association, Variable Star Section
21 Israeli Astronomical Association, Variable Star Section
24 Astronomischer Jugendclub (Austria)
27 Royal Astronomical Society of Canada

Table 4. Observation statistics for fiscal year 2005–2006 (see Figures 3, 4, and 5)

Observations (increments of 1000)	*N. Observations per increment*	*% of All Observations*	*No. Observers per increment*
1–999	81592	9%	633
1000–1999	51976	6%	38
2000–2999	35954	4%	15
3000–3999	44646	5%	13
4000–4999	62563	7%	14
5000–5999	32746	3%	6
6000–6999	25301	3%	4
7000–7999	22628	2%	3
8000–8999	8126	1%	1
9000–9999	18785	2%	2
10000+	547802	58%	22